



MiTek USA, Inc. MiTek USA, Inc. 400 Sunrise Avenue, Suite 270 Roseville, CA 95661 Telephone 916-755-3571

Re: 105782

Yavapai County 3 Bedroom

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Ballard-Mesa, Snow.

Pages or sheets covered by this seal: R64674492 thru R64674517

My license renewal date for the state of Arizona is March 31, 2022.

Arizona COA: 11906-0

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.



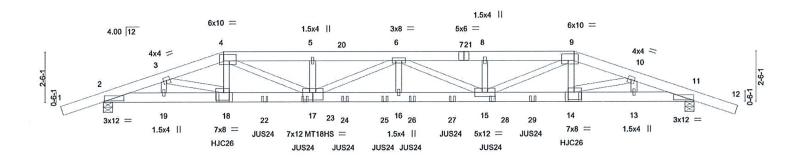
December 9,2020

Dyer, Cecil

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

REVIEWED FOR DESIGN CRITERIA ONLY

Job		Truss			Truss Type			Qty	Ply	Yavapai Count	ly 3 Bedroom				
	1													R64674	492
105782	1	401			GIRDER			1	2						
The state of the s					1					Job Reference	(optional)				
Ballard Truss LLC,	Snov	vflake, A	Z - 85937,		•			3	3.430 s Nov	30 2020 MiTek	Industries, Inc. 7	ue D	ec 8 08:52:2	24 2020 Page 1	
							ID:CpePS	MOIL FRA	S2JS9OCf9	eyB4UR-wQ9sF	FI5Z1JK8?O_IAIB	BLOM	16xbFWzbE	a8ZKyfQyB4HL	
-2-0-0	3-0-0	1	6-0-0	1	10-5-6	14-9-0	1 19	-0-10	1	23-6-0	26-6-0	1	29-6-0	31-6-0	
2-0-0	3-0-0		3-0-0		4-5-6	4-3-10	4	-3-10		4-5-6	3-0-0	1	3-0-0	2-0-0	



-	3-0-0 3-0-0	6-0-0	10-5-6 4-5-6	14-9-0 4-3-10	19-0-1 4-3-10		1	23-6-0 4-5-6			9-6-0
Plate Offsets (X,Y)		,0-0-8], [4:0-7-8,0-3	-12], [9:0-7-8,0-3	-12], [11:1-0-6,0-0-8],	[14:0-3-8,0-4-8], [17:0-6-0	,0-4-8]	[18:0-3-8	3,0-4-8]		
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 BCDL 10.0		SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 1.15 1.15 NO PI2014	CSI. TC 0.49 BC 0.83 WB 0.45 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.68 -0.90 0.16	(loc) 16 16 11	l/defl >510 >387 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 31	GRIP 185/144 185/144 0 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD 2x6 SPF 1650F 1.5E

BOT CHORD 2x6 SPF 2100F 1.8E

WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud *Except*

4-17,6-17,6-15,9-15: 2x4 SPF 1650F 1.5E

REACTIONS.

(size) 2=0-5-8, 11=0-5-8

Max Horz 2=-51(LC 7)

Max Uplift 2=-769(LC 6), 11=-769(LC 7) Max Grav 2=4659(LC 17), 11=4659(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD

2-3=-10979/1505, 3-4=-12785/1799, 4-5=-17201/2417, 5-6=-17200/2417, 6-8=-17200/2417, 8-9=-17201/2417, 9-10=-12785/1799, 10-11=-10979/1508

2-19=-1379/10199, 18-19=-1379/10199, 17-18=-1663/12252, 16-17=-2608/19158, **BOT CHORD**

15-16=-2608/19158, 14-15=-1615/12252, 13-14=-1334/10199, 11-13=-1334/10199 3-19=-616/155, 3-18=-291/2081, 4-18=-113/1212, 4-17=-774/5443, 5-17=-526/166,

6-17=-2174/373, 6-16=-123/1160, 6-15=-2174/371, 8-15=-526/165, 9-15=-775/5443,

9-14=-114/1213, 10-14=-288/2081, 10-13=-616/154

NOTES-

WEBS

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to
- ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 4) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 9) All plates are MT20 plates unless otherwise indicated.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property language. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





oseville, CA 95661

Structural wood sheathing directly applied or 4-1-9 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Job	Truss	Truss Type	Qty	Ply	Yavapai County 3 Bedroom R64674492
105782	A01	GIRDER	1	2	K04074432
a conjusting process		100000000000000000000000000000000000000	100		Job Reference (optional)

Ballard Truss LLC,

Snowflake, AZ - 85937,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:52:24 2020 Page 2 ID:CpePSM0ILfRAS2JS9OCf9eyB4UR-wQ9sFI5Z1JK8?O_IAiBtOMM6xbFWzbEa8ZKyfQyB4HL

NOTES-

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 769 lb uplift at joint 2 and 769 lb uplift at joint 11.

13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- 14) Use USP HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 17-5-4 oc max. starting at 6-0-6 from the left end to 23-5-10 to connect truss(es) to back face of bottom chord.
- 15) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 8-0-12 from the left end to 21-5-4 to connect truss(es) to back face of bottom chord.
- 16) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-100, 4-9=-100, 9-12=-100, 2-11=-20

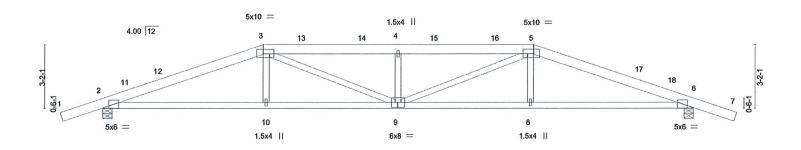
Concentrated Loads (lb)

Vert: 18=948(B) 14=-948(B) 22=-407(B) 23=-407(B) 24=-407(B) 25=-407(B) 26=-407(B) 27=-407(B) 28=-407(B) 29=-407(B)

REVIEWED FOR DESIGN CRITERIA ONLY



Job	Truss	Truss Type	Qty	Ply	Yavapai County 3 Bedroom	
						R64674493
105782	A02	Hip	1	1		
	1000	1			Job Reference (optional)	
Ballard Truss LLC,	Snowflake, AZ - 85937,	•	8	.430 s Nov	30 2020 MiTek Industries, Inc. Tue Dec 8 0	8:52:26 2020 Page 1
			ID:CpePSM0ILfR/	AS2JS9OC	f9eyB4UR-soHdg_7pZwasEh7gl6ELTnSPYF	ymRQntctp3klyB4HJ
-2-0-0	8-0-0	14-9-0	21-6	6-0	29-6-0	31-6-0
2-0-0	8-0-0	6-9-0	6-9	-0	8-0-0	2-0-0



	8-0-0		14-9-0			21-6-0				29-6-0	
1	8-0-0	1	6-9-0		1	6-9-0		,		8-0-0	1
Plate Offsets (X,Y)	[2:0-3-10,Edge], [3:0-6-4,0-2	-12], [5:0-6-4,	0-2-12], [6:0-	3-10,Edge]							
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TP	2-0-0 1.15 1.15 YES 12014	BC	0.67 0.78 0.70 SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.42 -0.59 0.17	(loc) 9 9 6	I/defl >838 >595 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 124 lb	GRIP 185/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x6 SPF 1650F 1.5E

TOP CHORD **BOT CHORD** 2x4 SPF 1650F 1.5E

WEBS

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

REACTIONS.

(size) 2=0-5-8, 6=0-5-8

Max Horz 2=-63(LC 15) Max Uplift 2=-372(LC 10), 6=-372(LC 11)

Max Grav 2=2097(LC 35), 6=2097(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-4257/656, 3-4=-5441/822, 4-5=-5441/822, 5-6=-4257/656

BOT CHORD

2-10=-502/3931, 9-10=-498/3939, 8-9=-513/3939, 6-8=-517/3931

WEBS

3-10=0/305, 3-9=-232/1625, 4-9=-1125/226, 5-9=-233/1625, 5-8=0/305

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 8-0-0, Exterior(2R) 8-0-0 to 12-11-6, Interior(1) 12-11-6 to 21-6-0, Exterior(2R) 21-6-0 to 26-5-6, Interior(1) 26-5-6 to 31-6-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.

referenced standard ANSI/TPI 1.

- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 372 lb uplift at joint 2 and 372 lb uplift at 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and



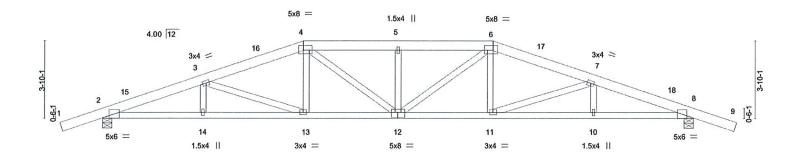
Structural wood sheathing directly applied or 3-3-13 oc purlins.

Rigid ceiling directly applied or 9-10-1 oc bracing.

\Lambda WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type		Qty	Ply	Yavapai County 3 Bedro	oom	**********
V		. 550			100			R64674494
105782	A03	Hip		1	1			
						Job Reference (optional)		
Ballard Truss LLC,	Snowflake, AZ - 85937,				8.430 s Nov	30 2020 MiTek Industrie	s, Inc. Tue Dec 8 08:5	2:27 2020 Page 1
				ID:CpePSM	IOILIRAS2J	S9OCf9eyB4UR-K_r?uK7	RKEjjsritrqla0?_gEpIC.	Avb0qXZcGlyB4HI
-2-0-0	5-0-0	10-0-0	14-9-0	19-6-0	1	24-6-0	29-6-0	31-6-0
2-0-0	5-0-0	5-0-0	4-9-0	4-9-0		5-0-0	5-0-0	2-0-0



	5-0-0 5-0-0	10-0-0 5-0-0	14-9-0 4-9-0	19-6-0 4-9-0	24-6-0 5-0-0	29-6-0 5-0-0
Plate Offsets (X,Y)	2:0-3-14,Edge], [4:0-5-4	,0-2-12], [6:0-5-4,	0-2-12], [8:0-3-14,Edge], [1	12:0-4-0,0-3-0]		
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Inc Code IRC2018	1.15 YES	CSI. TC 0.29 BC 0.71 WB 0.54 Matrix-SH	DEFL. in (lor Vert(LL) -0.27 1 Vert(CT) -0.41 12-1 Horz(CT) 0.16	2 >999 240	PLATES GRIP MT20 185/144 Weight: 141 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x6 SPF 1650F 1.5E

TOP CHORD **BOT CHORD** 2x4 SPF 1650F 1.5E

WEBS

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

REACTIONS.

(size) 2=0-5-8, 8=0-5-8

Max Horz 2=-75(LC 19) Max Uplift 2=-363(LC 10), 8=-363(LC 11)

Max Grav 2=2309(LC 35), 8=2309(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-4371/715, 3-4=-3754/644, 4-5=-3854/702, 5-6=-3854/702, 6-7=-3754/644,

7-8=-4371/714

BOT CHORD 2-14=-585/3975, 13-14=-585/3975, 12-13=-449/3520, 11-12=-466/3520, 10-11=-601/3975,

8-10=-601/3975

WEBS 3-13=-872/144, 4-13=0/411, 4-12=-130/791, 5-12=-762/162, 6-12=-130/791, 6-11=0/411,

7-11=-872/143

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 10-0-0, Exterior(2R) 10-0-0 to 14-9-0, Interior(1) 14-9-0 to 19-6-0, Exterior(2R) 19-6-0 to 24-6-0, Interior(1) 24-6-0 to 31-6-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Cl=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 363 lb uplift at joint 2 and 363 lb uplift at joint 8.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



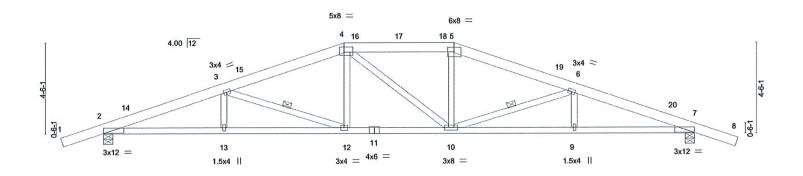
Structural wood sheathing directly applied or 4-2-0 oc purlins.

Rigid ceiling directly applied or 9-3-4 oc bracing.

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses sand truss systems, see ANSIIPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type		Qty	Ply	Yavapai County 3 Bedroom		E. C.
								R64674495
105782	A04	Hip	1	1	1			
	1.15					Job Reference (optional)		
Ballard Truss LLC.	Snowflake, AZ - 85937,	•	•	8.	430 s Nov	30 2020 MiTek Industries, Inc.	Tue Dec 8 08:52	2:28 2020 Page 1
			ID:CpePSM0I	LfRAS2J	S9OCf9ey	B4UR-oBPN5g835YraU?H3PX	GpYCXpTDduvO3	3A3BIAoByB4HH
-2-0-0	6-0-0	12-0-0	17-6-0	1	23	3-6-0	29-6-0	31-6-0
2-0-0	6-0-0	6-0-0	5-6-0		6	-0-0	6-0-0	2-0-0



	6-0-0 6-0-0	12-0-0 6-0-0			17-6-0 5-6-0		3-6-0 6-0-0		29-6-0 6-0-0	—
Plate Offsets (X,Y) [2:	1-0-0,0-0-6], [4:0-5-4,0-	3-4], [7:1-0-0,0-0-6	6]							
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/	2-0-0 1.15 1.15 YES TPI2014	BC 0	.39 .81 .39 BH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.33 12-13 -0.47 12-13 0.19 7	I/defl >999 >734 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 137 lb	GRIP 185/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x6 SPF 1650F 1.5E

TOP CHORD **BOT CHORD** 2x4 SPF 1650F 1.5E

WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

REACTIONS.

(size) 2=0-5-8, 7=0-5-8 Max Horz 2=88(LC 18)

Max Uplift 2=-351(LC 10), 7=-351(LC 11) Max Grav 2=2521(LC 35), 7=2521(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD

2-3=-4973/726, 3-4=-3625/622, 4-5=-3323/629, 5-6=-3630/622, 6-7=-4971/726

BOT CHORD

2-13=-591/4524, 12-13=-591/4524, 10-12=-407/3318, 9-10=-607/4522, 7-9=-607/4522

WEBS

3-12=-1296/201, 4-12=-0/546, 4-10=-352/360, 5-10=-1/544, 6-10=-1288/204

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 12-0-0, Exterior(2R) 12-0-0 to 16-11-6, Interior(1) 16-11-6 to 17-6-0, Exterior(2R) 17-6-0 to 22-5-6, Interior(1) 22-5-6 to 31-6-14 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf-40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 351 lb uplift at joint 2 and 351 lb uplift at joint 7.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



MiTek MiTek USA, Inc. 400 Sunrise Avenue, Suite 270 seville, CA 95661

Structural wood sheathing directly applied or 3-9-3 oc purlins.

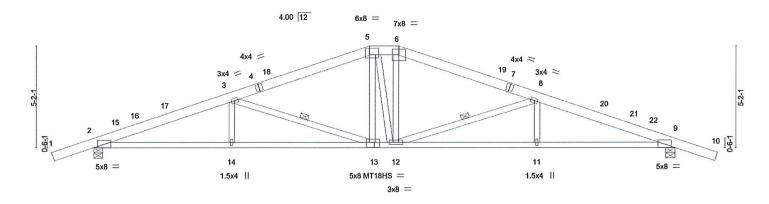
3-12, 6-10

Rigid ceiling directly applied or 9-2-7 oc bracing.

1 Row at midpt

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITEX® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly language. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

b	Truss	Truss Type		Qty	Ply	Yavapai County 3 Bedroom	
		100.00					R64674496
5782	A05	Hip		1	1		
						Job Reference (optional)	
Ballard Truss LLC, S	nowflake, AZ - 85937,			8.	430 s Nov	30 2020 MiTek Industries, Inc. Tue Dec 8 08:52:30	2020 Page 1
			ID:CpeP	SMOILFRAS	S2JS9OCf	PeyB4UR-IZW8WLAJd95IjJRSXyIHedc7a0HjNJeTW\	nHt4yB4HF
-2-0-0	7-0-0	14-0-0	15-6-0	21505475 564	22-6-0	29-6-0	31-6-0
2-0-0	7-0-0	7-0-0	1-6-0		7-0-0	7-0-0	2-0-0
	D5782 Ballard Truss LLC, Sr	D5782 A05 Ballard Truss LLC, Snowflake, AZ - 85937, -2-0-0 7-0-0	D5782 A05 Hip Ballard Truss LLC, Snowlake, AZ - 85937, -2-0-0 7-0-0 14-0-0	D5782 A05 Hip Ballard Truss LLC, Snowflake, AZ - 85937, ID:CpeP -2-0-0 7-0-0 14-0-0 15-6-0	D5782 A05 Hip 1 Ballard Truss LLC, Snowflake, AZ - 85937, 8. DC:CpePSMOILfRA: 15-6-0 15-6-0	D5782 A05 Hip 1 1 1 Ballard Truss LLC, Snowflake, AZ - 85937, B.430 s Nov ID:CpePSM0ILfRAS2JS9OCf(D5782 A05 Hip 1 1 1 Job Reference (optional) Ballard Truss LLC, Snowflake, AZ - 85937, B.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:52:30 2 Di:CpePSM0ILfRAS2JS9OCf9eyB4UR-IZW8WLAJd95IJJRSXyIHedc7a0HjNJeTW



1	7-0-0	14-0-0	15-6-0	22-6-0	29-6-0	
	7-0-0	7-0-0	1-6-0	7-0-0	7-0-0	
Plate Offsets (X,Y) [2	2:0-2-6,Edge], [5:0-5-8,0-4-0], [9:0-2-6,Edge], [13:0-3-4,0-3-0]				
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	Plate Grip DOL 1 Lumber DOL 1	0-0 CSI. .15 TC 0.48 .15 BC 0.91 ES WB 0.32 14 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) I/defl -0.40 13-14 >870 -0.58 13-14 >605 0.22 9 n/a	L/d PLATES 240 MT20 180 MT18HS n/a Weight: 137 lb	GRIP 185/144 185/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x6 SPF 1650F 1.5E **BOT CHORD** 2x4 SPF 1650F 1.5E

WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud *Except*

3-13,8-12: 2x4 SPF 1650F 1.5E

(size) 2=0-5-8, 9=0-5-8

Max Horz 2=100(LC 18) Max Uplift 2=-338(LC 10), 9=-338(LC 11) Max Grav 2=2733(LC 35), 9=2733(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-5537/669, 3-5=-3824/533, 5-6=-3506/551, 6-8=-3850/535, 8-9=-5532/676

2-14=-531/5050, 13-14=-531/5050, 12-13=-307/3493, 11-12=-555/5045, 9-11=-555/5045 **BOT CHORD**

3-14=0/289, 3-13=-1677/263, 5-13=-33/614, 5-12=-353/415, 6-12=-52/628, WEBS

8-12=-1646/265, 8-11=0/284

NOTES-

REACTIONS.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 14-0-0, Exterior(2E) 14-0-0 to 15-6-0, Exterior(2R) 15-6-0 to 20-5-6, Interior(1) 20-5-6 to 31-6-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 338 lb uplift at joint 2 and 338 lb uplift at joint 9.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 3-4-5 oc purlins.

3-13, 8-12

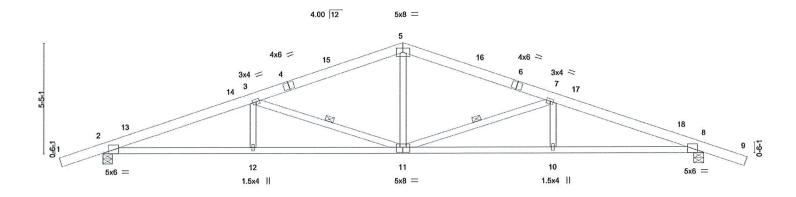
Rigid ceiling directly applied or 9-7-4 oc bracing.

1 Row at midpt

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/ITPI1 Quality Criteria, DSB-89 and BCS/ Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Yavapai County 3 Bedroom	R64674497
105782	A06	Common	6	1		104074497
			, , , , , , , , , , , , , , , , , , , ,		Job Reference (optional)	
Ballard Truss LLC, S	nowflake, AZ - 85937,				30 2020 MiTek Industries, Inc. Tue Dec 8 08:52	
			ID:CpePSM0ILfRAS2	JS9OCf9e	yB4UR-Dm4WjhByOTD9LT0e4gpWAr9INQgu6lP	
-2-0-0	7-4-8	14-9-0	. 2	2-1-8	29-6-0	31-6-0
2-0-0	7-4-8	7-4-8	1	7-4-8	7-4-8	2-0-0



1	7-4-8	14-9-0	22-1-8	29-6-0
	7-4-8	7-4-8	7-4-8	7-4-8
Plate Offsets (X,Y) [2:	0-3-6,Edge], [8:0-3-6,Edge], [1 ⁻	1:0-4-0,0-3-0]		
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0- Plate Grip DOL 1.1 Lumber DOL 1.1 Rep Stress Incr YE Code IRC2018/TPI2014	5 TC 0.48 5 BC 0.72 S WB 0.42	Vert(CT) -0.43 11-12 >816	L/d PLATES GRIP 240 MT20 185/144 180 n/a Weight: 127 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E

BOT CHORD 2x4 SPF 1650F 1.5E

WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud *Except*

7-11,3-11: 2x4 SPF 1650F 1.5E

REACTIONS. (size) 2=0-5-8, 8=0-5-8

(Size) 2=0-5-8, 8=0-5-8 Max Horz 2=105(LC 14)

Max Uplift 2=-332(LC 10), 8=-332(LC 11) Max Grav 2=1998(LC 21), 8=1998(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-4166/612, 3-5=-2797/480, 5-7=-2797/480, 7-8=-4166/611

BOT CHORD 2-12=-470/3818, 11-12=-470/3818, 10-11=-491/3818, 8-10=-491/3818 WEBS 5-11=-61/973, 7-11=-1578/288, 7-10=0/291, 3-11=-1578/286, 3-12=0/291

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 14-9-0, Exterior(2R) 14-9-0 to 18-3-0, Interior(1) 18-3-0 to 31-6-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 332 lb uplift at joint 2 and 332 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-1-5 oc purlins.

7-11, 3-11

Rigid ceiling directly applied or 10-0-0 oc bracing.

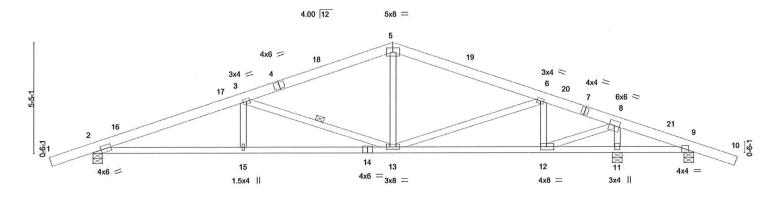
1 Row at midpt

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, crection and bracing of trusses and truss systems, see ANSIITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Truss	Truss Type	Qty	Ply	Yavapai County 3 Bedroom		
						R64674498
A07	Common	2	1	_		
				Job Reference (optional)		
Snowflake, AZ - 85937,			.430 s Nov	30 2020 MiTek Industries, Inc. Tu	e Dec 8 08:52:32	2020 Page 1
		ID:CpePSM0ILf	RAS2JS9C	Cf9eyB4UR-hyeux1Ba9mL0ycbqe	NLIj2iUcq2SrByl_j	GNxyyB4HD
7-4-8	14-9-0		22-1-8	25-9-4	29-6-0	31-6-0
7-4-8	7-4-8		7-4-8	3-7-12	3-8-12	2-0-0
	A07 Snowflake, AZ - 85937, 7-4-8	A07 Common Snowflake, AZ - 85937, 7-4-8 14-9-0	A07 Common 2 Snowflake, AZ - 85937, 8 ID:CpePSM0ILfi 7-4-8 14-9-0 2	A07 Common 2 1 Snowflake, AZ - 85937, 8.430 s Nov ID:CpePSM0ILfRAS2JS9C 7-4-8 14-9-0 22-1-8	A07 Common 2 1 Job Reference (optional) Snowflake, AZ - 85937, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tu ID:CpePSM0ILfRAS2JS9OCf9eyB4UR-hyeux1Ba9mt.0ycbqe 7-4-8 14-9-0 22-1-8 25-9-4	A07 Common 2 1 1 Job Reference (optional) Snowflake, AZ - 85937, Snowflake, AZ - 85937, B.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:52:32 ID:CpePSM0ILfRA52JS90Cf9eyB4UR-hyeux1Ba9mL0ycbqeNLI]ziUcq2SrByI_1 7-4-8 14-9-0 22-1-8 25-9-4 29-6-0



	7-4-8	14-9-6	D	1	22-1-8		1	25-9-4	29-6	6-0
	7-4-8	7-4-8		1	7-4-8		1	3-7-12	3-8-	12
Plate Offsets (X,Y) [2	2:0-5-2,0-2-0], [12:0-3-8,0-2-0]									
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	Plate Grip DOL 1 Lumber DOL 1	0-0 CSI. .15 TC .15 BC ES WB 14 Matrix	0.45 0.64 0.46 SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.18 13-15 -0.29 13-15 0.08 11	I/defI >999 >999 n/a	L/d 240 180 n/a		PLATES MT20 Weight: 132 lt	GRIP 185/144 o FT = 10%

LUMBER-TOP CHORD

2x6 SPF 1650F 1.5E

BOT CHORD 2x4 SPF 1650F 1.5E

WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud *Except*

3-13,6-13,8-12: 2x4 SPF 1650F 1.5E

BRACING-

Structural wood sheathing directly applied or 4-7-0 oc purlins. TOP CHORD

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. WFBS

1 Row at midpt 3-13

REACTIONS.

(size) 2=0-5-8, 11=0-5-8, 9=0-5-8

Max Horz 2=105(LC 14) Max Uplift 2=-311(LC 10), 11=-202(LC 11), 9=-183(LC 21) Max Grav 2=1787(LC 21), 11=2176(LC 1), 9=496(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3557/524, 3-5=-2000/378, 5-6=-1997/386, 6-8=-1746/311, 8-9=-123/1121

2-15=-387/3246, 13-15=-387/3246, 12-13=-184/1631, 11-12=-989/184, 9-11=-989/184 **BOT CHORD WEBS**

3-15=0/290, 3-13=-1617/290, 5-13=-3/469, 6-13=-65/712, 6-12=-842/207,

8-12=-372/2672, 8-11=-2090/324

NOTES-

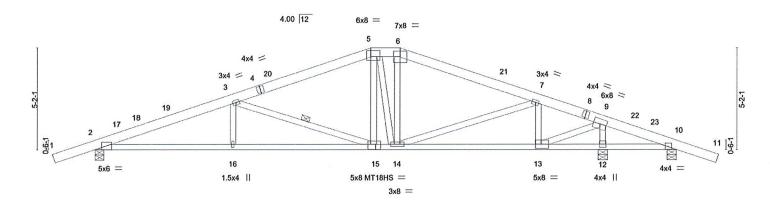
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 14-9-0, Exterior(2R) 14-9-0 to 18-3-0, Interior(1) 18-3-0 to 31-6-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 311 lb uplift at joint 2, 202 lb uplift at joint 11 and 183 lb uplift at joint 9.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/for chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusse systems, see ANSITH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type		Qty	Ply	Yavapai County 3 Bedroom		
				1				R64674499
105782	A08	Hip		1	1			
and the same of th	100			1"		Job Reference (optional)		
Ballard Truss LLC,	Snowflake, AZ - 85937,	-		8	.430 s Nov	30 2020 MiTek Industries, Inc. T	ue Dec 8 08:52:	33 2020 Page 1
			ID:CpePSM	OIL FRAS2J	S9OCf9ey	B4UR-98CG8NCCv4TtamA0C5s	_FGEfeELuacUvI	DS0xUPyB4HC
-2-0-0	7-0-0	14-0-0	15-6-0		22-6-0	25-9-4	29-6-0	31-6-0
2-0-0	7-0-0	7-0-0	1-6-0		7-0-0	3-3-4	3-8-12	2-0-0



<u> </u>	7-0-0 7-0-0		14-0-0 7-0-0	15-6-0	22-6-0 7-0-0		25-9-4	29-6-0 3-8-12	———
Plate Offsets (X,Y)	[2:0-4-2,Edge], [5:0-5-8,0-3	-12], [13:0-3-8							
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TI	2-0-0 1.15 1.15 YES PI2014	CSI. TC 0.43 BC 0.75 WB 0.64 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.25 15-16 -0.37 15-16 0.10 12	I/defl >999 >829 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 142 lb	GRIP 185/144 185/144 FT = 10%

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E

BOT CHORD 2x4 SPF 1650F 1.5E

WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud *Except*

3-15,7-14,9-13: 2x4 SPF 1650F 1.5E

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-11 oc purlins.

BOT CHORD Rigid ceiling directly applied or 5-11-11 oc bracing.

WEBS 1 Row at midpt

REACTIONS.

(size) 2=0-5-8, 12=0-5-8, 10=0-5-8

Max Horz 2=100(LC 18)

Max Uplift 2=-316(LC 10), 12=-213(LC 11), 10=-195(LC 21) Max Grav 2=2375(LC 35), 12=2966(LC 35), 10=494(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-4508/573, 3-5=-2740/424, 5-6=-2374/427, 6-7=-2669/415, 7-9=-1950/304, TOP CHORD

9-10=-146/1575

2-16=-441/4084, 15-16=-441/4084, 14-15=-197/2464, 13-14=-196/1797, 12-13=-1390/206, **BOT CHORD**

10-12=-1390/206 3-16=0/291, 3-15=-1745/266, 5-15=-38/630, 5-14=-581/148, 6-14=-98/429,

7-14=-58/785, 7-13=-1246/235, 9-13=-409/3451, 9-12=-2873/351

NOTES-

WFBS

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 14-0-0, Exterior(2E) 14-0-0 to 15-6-0, Exterior(2R) 15-6-0 to 20-5-6, Interior(1) 20-5-6 to 31-6-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 316 lb uplift at joint 2, 213 lb uplift at joint 12 and 195 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

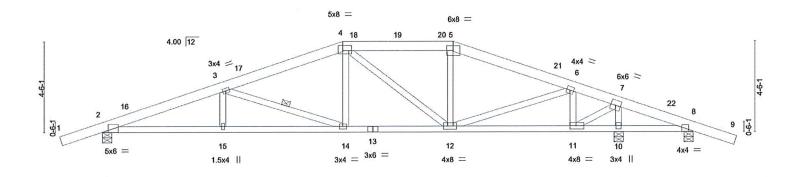


⚠ WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



MiTek USA, Inc. 400 Sunrise Avenue, Suite 270 seville, CA 95661

Job	Truss	Truss Type		Qty	Ply	Yavapai County 3 Bedroon	n	Polific on the force
				-				R64674500
105782	A09	Hip		1	1			
						Job Reference (optional)		
Ballard Truss LLC.	Snowflake, AZ - 85937,			8	.430 s Nov	30 2020 MiTek Industries, I	nc. Tue Dec 8 08:5	2:34 2020 Page 1
			ID:CpePS	MOILTRAS	S2JS9OCf9	eyB4UR-dLmeMjDqgObkC	wIDmoNDoTnrhdiTJ	3w2R6IU0ryB4HB
-2-0-0	6-0-0	12-0-0	17-6-0		23	3-6-0 25-9-4	29-6-0	31-6-0
2-0-0	6-0-0	6-0-0	5-6-0		6	-0-0 2-3-4	3-8-12	2-0-0



-	6-0-0 6-0-0	12-0- 6-0-l		17-6-0 5-6-0			3-6-0 5-0-0		25-9-4 2-3-4	29-6-0 3-8-12	
Plate Offsets (X,Y)	[2:0-3-6,Edge], [4:0-5-4,0)-3-4], [11:0-3-8,0	-2-0]								
LOADING (psf) TCLL	SPACING- Plate Grip DOL Lumber DOL Rep Stress Inci Code IRC2018	1.15 YES	BC (0.67 Ver 0.63 Hor	t(LL) -0.21	14-15 14-15	l/defl >999 >994 n/a	L/d 240 180 n/a		PLATES MT20 Weight: 141 lb	GRIP 185/144 FT = 10%

BRACING-TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD

2x6 SPF 1650F 1.5E

BOT CHORD 2x4 SPF 1650F 1.5E

WEBS

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud *Except*

7-11: 2x4 SPF 1650F 1.5E

REACTIONS.

(size) 2=0-5-8, 10=0-5-8, 8=0-5-8

Max Horz 2=-88(LC 15)

Max Uplift 2=-327(LC 10), 10=-237(LC 11), 8=-218(LC 21) Max Grav 2=2200(LC 35), 10=2660(LC 35), 8=492(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-4065/623, 3-4=-2662/513, 4-5=-1981/446, 5-6=-2239/442, 6-7=-1166/239,

TOP CHORD 7-8=-167/1455

BOT CHORD 2-15=-494/3674, 14-15=-494/3674, 12-14=-303/2414, 11-12=-143/1079, 10-11=-1282/230,

8-10=-1282/230

WEBS 3-14=-1365/204, 4-14=-2/570, 4-12=-710/130, 6-12=-128/1255, 6-11=-1348/273,

7-11=-401/2751, 7-10=-2582/375

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 12-0-0, Exterior(2R) 12-0-0 to 16-11-6, Interior(1) 16-11-6 to 17-6-0, Exterior(2R) 17-6-0 to 22-5-6, Interior(1) 22-5-6 to 31-6-14 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 327 lb uplift at joint 2, 237 lb uplift at joint 10 and 218 lb uplift at joint 8.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-3-4 oc purlins.

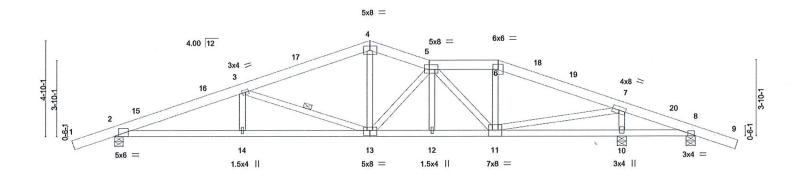
Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt

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Job	Truss	Truss Type		Qty	Ply	Yavapai County 3 Bedroom		
		800		-	100			R64674501
105782	A10	SPECIAL		1	1			
33.12-12-12		10.357				Job Reference (optional)		
Ballard Truss LLC,	Snowflake, AZ - 85937,			8	430 s Nov	30 2020 MiTek Industries, Inc.	Tue Dec 8 08:52:	:36 2020 Page 1
			ID:Cp	ePSM0ILfR/	AS2JS9OC	cf9eyB4UR-ZjuPnPE4C?rSREu	btDPhtusB6RPynto	qLvQEb4jyB4H9
-2-0-0	6-6-0	13-0-0	16-0-0	19-6-	0 1	25-9-4	29-6-0	31-6-0
2-0-0	6-6-0	6-6-0	3-0-0	3-6-0)	6-3-4	3-8-12	2-0-0



1	6-6-0	1	13-0-0	16-0-0	19-6-0	25-9	-4 29-6-0	
	6-6-0	1	6-6-0	3-0-0	3-6-0	6-3-	4 3-8-12	· · · · · · · · · · · · · · · · · · ·
Plate Offsets (X,Y) [2	:0-2-10,Edge], [5:0-5-4,0-2-	12], [8:0-0-10,	Edge], [13:0-4-0,0-3	-0]				
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI	2-0-0 1.15 1.15 YES 2014	CSI. TC 0.35 BC 0.60 WB 0.98 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.19 13-14 -0.30 13-14 0.08 10	l/defl L/d >999 240 >999 180 n/a n/a	MT20	GRIP 185/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x6 SPF 1650F 1.5E **BOT CHORD** 2x4 SPF 1650F 1.5E

WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

REACTIONS. (size) 2=0-5-8, 10=0-5-8, 8=0-5-8

Max Horz 2=-94(LC 15) Max Uplift 2=-298(LC 10), 10=-209(LC 11), 8=-161(LC 11) Max Grav 2=1791(LC 21), 10=2029(LC 37), 8=560(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-3588/574, 3-4=-2389/460, 4-5=-2254/478, 5-6=-2066/428, 6-7=-2292/422, TOP CHORD 7-8=-47/434

BOT CHORD 2-14=-439/3276, 13-14=-439/3276, 12-13=-332/2497, 11-12=-331/2498, 10-11=-364/87,

8-10=-364/87 WEBS 3-14=0/261, 3-13=-1373/236, 4-13=-113/901, 5-13=-806/154, 5-11=-834/141,

6-11=-24/292, 7-11=-328/2287, 7-10=-1922/380

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 13-0-0, Exterior(2E) 13-0-0 to 16-0-0, Interior(1) 16-0-0 to 19-6-0, Exterior(2R) 19-6-0 to 23-0-0, Interior(1) 23-0-0 to 31-6-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 298 lb uplift at joint 2, 209 lb uplift at joint 10 and 161 lb uplift at joint 8.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-7-6 oc purlins.

3-13

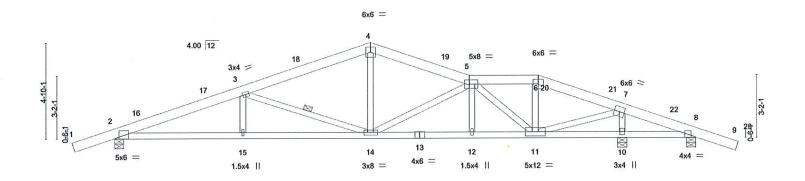
Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job		Truss	Truss Type		Qty	Ply	Yavapai County 3 Bedroom		e cercolono sono
									R64674502
105782		A11	SPECIAL		1	1			
12-4-2-7-2			W. C. A. C. S. C.				Job Reference (optional)		
Ballard Truss L	LC. Sno	owflake, AZ - 85937,				3.430 s Nov	30 2020 MiTek Industries, Inc.	Tue Dec 8 08:52:	37 2020 Page 1
		the second second second			ID:CpePSM0ILfRA	S2JS9OCf9	eyB4UR-1wRn_IFjzJzI3OToR	wwwQ6PMgrlwWQI	U74_8dAyB4H8
-2-0	0-0	6-6-0	13-0-0	1	18-0-0	21-6	-0 25-9-4	29-6-0	31-6-0
2-0		6-6-0	6-6-0		5-0-0	3-6-	0 4-3-4	3-8-12	2-0-0



—	6-6-0 6-6-0	1	13-0-0 6-6-0	18-0-0 5-0-0	21-6-0 3-6-0		25-9-4 4-3-4	29-6-0 3-8-12	
Plate Offsets (X,Y)	[2:0-2-10,Edge], [5:0-5-4,0-2	-12]							
LOADING (psf) TCLL	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI	2-0-0 1.15 1.15 YES 2014	CSI. TC 0.36 BC 0.62 WB 0.58 Matrix-SH		in (loc) -0.20 14-15 -0.30 14-15 0.09 10	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 140 lb	GRIP 185/144 FT = 10%

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E

2x4 SPF 1650F 1.5E BOT CHORD

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud *Except* WEBS

7-11: 2x4 SPF 1650F 1.5E

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-6-10 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. WEBS

1 Row at midpt 3-14

REACTIONS.

(size) 2=0-5-8, 10=0-5-8, 8=0-5-8

Max Horz 2=-94(LC 19)

Max Uplift 2=-297(LC 10), 10=-233(LC 11), 8=-289(LC 38) Max Grav 2=1821(LC 38), 10=2285(LC 22), 8=473(LC 20)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

TOP CHORD 2-3=-3670/550, 3-4=-2321/434, 4-5=-2183/446, 5-6=-1566/341, 6-7=-1730/340, 7-8=-151/1269

BOT CHORD 2-15=-417/3351, 14-15=-417/3351, 12-14=-350/2610, 11-12=-347/2614, 10-11=-1144/216,

8-10=-1144/216

3-15=0/258, 3-14=-1386/239, 4-14=-76/765, 5-14=-847/177, 5-11=-1363/226,

7-11=-408/2689, 7-10=-2177/400

NOTES-

WEBS

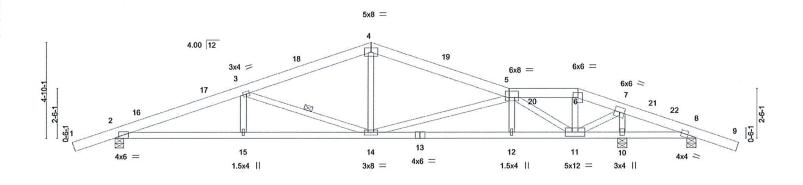
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 13-0-0, Exterior(2R) 13-0-0 to 16-6-0, Interior(1) 16-6-0 to 21-6-0, Exterior(2R) 21-6-0 to 25-0-0, Interior(1) 25-0-0 to 31-6-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 297 lb uplift at joint 2, 233 lb uplift at joint 10 and 289 lb uplift at joint 8.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Job	Truss	Truss Type	Qty	Ply	Yavapai County	3 Bedroom		A
								R64674503
105782	A12	Roof Special	1	1				
					Job Reference (optional)		
Ballard Truss LLC,	Snowflake, AZ - 85937,		8	.430 s Nov	30 2020 MiTek I	ndustries, Inc.	Tue Dec 8 08:52:	38 2020 Page 1
			ID:CpePSM0ILfRA	S2JS9OC	9eyB4UR-W6?9E	35GLkc59hX2_	?eR9yJyVFF57Fq	4eMkji9cyB4H7
-2-0-0	6-6-0	13-0-0	20-0-0		23-6-0	25-9-4	29-6-0	31-6-0
2-0-0	6-6-0	6-6-0	7-0-0		3-6-0	2-3-4	3-8-12	2-0-0



	6-6-0 6-6-0	-	13-0-0 6-6-0	20-0-0 7-0-0		23-6-0 3-6-0	25-9-4 2-3-4	29-6-0 3-8-12	
Plate Offsets (X,Y) [2	:0-2-6,Edge], [5:0-5-12,0-4	-0], [8:0-5-6,0	-1-15]						
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TP	2-0-0 1.15 1.15 YES 12014	CSI. TC 0.50 BC 0.62 WB 0.81 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.19 14-15 -0.28 14-15 0.09 10	l/defl L/d >999 240 >999 180 n/a n/a		PLATES MT20 Weight: 136 lb	GRIP 185/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E BOT CHORD 2x4 SPF 1650F 1.5E

BOT CHORD 2x4 SPF 1650F 1.5E WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud *Except*

5-14,7-11: 2x4 SPF 1650F 1.5E

REACTIONS. (size) 2=0-5-8, 10=0-5-8, 8=0-5-8

Max Horz 2=-94(LC 19)

Max Uplift 2=-296(LC 10), 10=-277(LC 11), 8=-562(LC 38) Max Grav 2=1761(LC 38), 10=2677(LC 22), 8=371(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3495/521, 3-4=-2144/406, 4-5=-2126/410, 5-6=-366/152, 6-7=-460/153,

7-8=-288/2130

BOT CHORD 2-15=-390/3187, 14-15=-390/3187, 12-14=-313/2366, 11-12=-308/2373, 10-11=-1921/356,

8-10=-1921/356

WEBS 3-14=-1383/242, 4-14=-26/629, 5-14=-628/188, 5-11=-2376/351, 7-11=-425/2605,

7-10=-2565/435

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 13-0-0, Exterior(2R) 13-0-0 to 16-6-0, Interior(1) 16-6-0 to 23-6-0, Exterior(2R) 23-6-0 to 27-0-0, Interior(1) 27-0-0 to 31-6-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 296 lb uplift at joint 2, 277 lb uplift at joint 10 and 562 lb uplift at joint 8.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-8-2 oc purlins.

Rigid ceiling directly applied or 5-0-5 oc bracing.

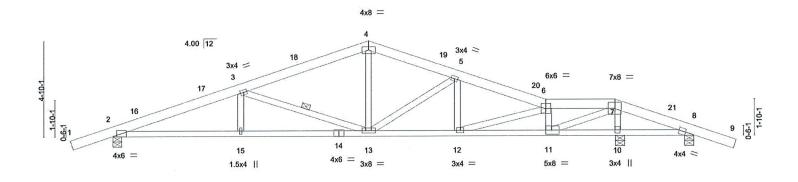
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design inol the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and pertyl damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSIITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Truss	Truss Type	Qty	Ply	Yavapai County 3 Bedroom		
						R64674504
A13	Roof Special	1	1			
	22.5			Job Reference (optional)		
nowflake, AZ - 85937,		8	.430 s Nov	30 2020 MiTek Industries, Inc.	Tue Dec 8 08:52:	40 2020 Page 1
		ID:CpePSM0ILfRAS2	JS9OCf9e	yB4UR-SV7vcmHbGELtwrCN63	JUd2k1sU2mHjoP	kq2CoDVyB4H5
6-6-0	13-0-0	17-6-0	22-0	-0 25-6-0	29-6-0	31-6-0
6-6-0	6-6-0	4-6-0	4-6-	0 3-6-0	4-0-0	2-0-0
5	A13 Snowflake, AZ - 85937, 6-6-0	A13 Roof Special Snowflake, AZ - 85937, 6-6-0 13-0-0	A13 Roof Special 1 Snowflake, AZ - 85937, 8 ID:CpePSM0ILfRAS2 6-6-0 13-0-0 17-6-0	A13 Roof Special 1 1 1 Snowflake, AZ - 85937, 8.430 s Nov ID:CpePSM0ILfRAS2JS9OCf9e 6-6-0 13-0-0 17-6-0 22-0	A13 Roof Special 1 1 Job Reference (optional) Snowflake, AZ - 85937, B.430 s Nov 30 2020 MiTek Industries, Inc. ID:CpePSM0ILfRAS2JS9OCf9eyB4UR-SV7vcmHbGELtwrCN63 6-6-0 13-0-0 17-6-0 22-0-0 25-6-0	A13 Roof Special 1 1 Job Reference (optional) Snowflake, AZ - 85937, B.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:52: ID:CpePSM0ILfRAS2JS9OCf9ey84UR-SV7vcmHbGELtwrCN63Ud2k1sU2mHjoP: 6-6-0 13-0-0 17-6-0 22-0-0 25-6-0 29-6-0



-	6-6-0 6-6-0	+	13-0-0 6-6-0	17-6-0 4-6-0	22-0-0 4-6-0	25-6-0 3-6-0	26-0-0 29-6-0 0-6-0 3-6-0	
Plate Offsets (X,Y) [2	2:0-2-6,Edge], [8:0-5-6,0-1-	15], [11:0-3-8,	0-2-8]					
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TP	2-0-0 1.15 1.15 YES I2014	CSI. TC 0.39 BC 0.58 WB 0.56 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) I/defl -0.18 13-15 >999 -0.29 13-15 >999 0.07 10 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 137 lb	GRIP 185/144 FT = 10%

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E

2x4 SPF 1650F 1.5E **BOT CHORD**

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud *Except* WFBS

7-11: 2x4 SPF 1650F 1.5E

BRACING-

Structural wood sheathing directly applied or 4-8-13 oc purlins. TOP CHORD

BOT CHORD Rigid ceiling directly applied or 5-0-2 oc bracing. WEBS 3-13

1 Row at midpt

REACTIONS.

(size) 2=0-5-8, 10=0-5-8, 8=0-5-8

Max Horz 2=94(LC 18)

Max Uplift 2=-297(LC 10), 10=-278(LC 11), 8=-499(LC 38) Max Grav 2=1735(LC 38), 10=2643(LC 22), 8=363(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3424/510, 3-4=-2076/391, 4-5=-2037/407, 5-6=-2553/436, 6-7=-1511/301,

7-8=-283/2135

2-15=-379/3121, 13-15=-379/3121, 12-13=-267/2359, 11-12=-215/1645, 10-11=-1686/312, **BOT CHORD**

8-10=-1933/353

3-15=0/262, 3-13=-1398/239, 4-13=-66/695, 5-13=-741/165, 6-12=-75/793,

6-11=-1344/274, 7-10=-2523/411, 7-11=-544/3450

NOTES-

WEBS

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 13-0-0, Exterior(2R) 13-0-0 to 16-6-0, Interior(1) 16-6-0 to 25-6-0, Exterior(2R) 25-6-0 to 29-3-4, Interior(1) 29-3-4 to 31-6-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

3) Unbalanced snow loads have been considered for this design.

4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.

Provide adequate drainage to prevent water ponding.

6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.

7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 297 lb uplift at joint 2, 278 lb uplift at joint 10 and 499 lb unlift at joint 8.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusse systems, see ANSITIFI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss		Truss Type		Qty	Ply	Yavapai County 3 Bedroom		To de son estado so
									R64674505
105782	B1		GIRDER		1	2			
					*	_	Job Reference (optional)		
Ballard Truss LLC.	Snowflake, A	Z - 85937,			8	430 s Nov	30 2020 MiTek Industries, Inc.	Tue Dec 8 08:52	2:43 2020 Page 1
and the second second second second second				ID:CpePSM	10ILfRAS2	JS9OCf9e	yB4UR-s3p2FoKTZ9kSnJxxnB1	KfNfPSGqEw7Ff	NW0RTqpyB4H2
-2-0-0	3-0-0	6-0-0	10-8-9	15-3-7	1	20-0-	0 23-0-0	26-0-0	28-0-0
2-0-0	3-0-0	3-0-0	4-8-9	4-6-13		4-8-	9 3-0-0	3-0-0	2-0-0

Scale = 1:49.3

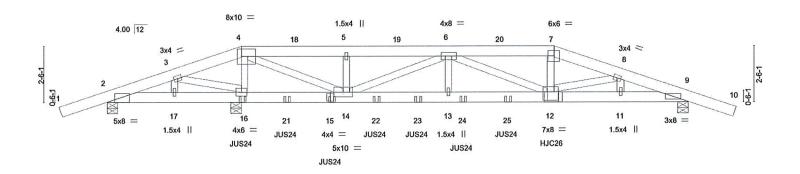


Plate Offsets (X,Y)		6-0-0 10-8-9 0-2-12 4-8-9 -4-01. [12:0-4-0.0-4-8	. [15:0-1-14.0-	15-3-7 4-6-13 -2-01	20-0-0 4-8-9	23-0-0 3-0-0	26-0-0 3-0-0	
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Inco	2-0-0 1.15 1.15 NO	CSI. TC 0.28 BC 0.50 WB 0.62 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) I/defl -0.17 12-13 >999 -0.22 12-13 >999 0.03 9 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 272 lb	GRIP 185/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x6 SPF 1650F 1.5E

TOP CHORD **BOT CHORD** 2x6 SPF 1650F 1.5E

WEBS

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud *Except*

4-14,6-14,6-12: 2x4 SPF 1650F 1.5E

REACTIONS.

WEBS

(size) 2=0-5-8, 16=0-5-8, 9=0-5-8

Max Horz 2=51(LC 6)

Max Uplift 2=-1015(LC 30), 16=-797(LC 6), 9=-475(LC 7) Max Grav 2=505(LC 45), 16=5762(LC 30), 9=2695(LC 31)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

TOP CHORD 2-3=-459/3308, 3-4=-442/3511, 4-5=-3368/540, 5-6=-3368/540, 6-7=-6071/899,

7-8=-6270/913, 8-9=-5532/764

2-17=-3055/481, 16-17=-3055/481, 14-16=-3635/555, 13-14=-873/6638, 12-13=-873/6638, BOT CHORD

11-12=-656/5086, 9-11=-656/5086

 $3-16=-528/132,\ 4-16=-4617/678,\ 4-14=-1055/7629,\ 5-14=-670/155,\ 6-14=-3583/526,$ 6-13=-102/1055, 6-12=-622/226, 7-12=-156/1427, 8-12=-235/987, 8-11=-337/106

NOTES-1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 4) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

Unbalanced snow loads have been considered for this design.

This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.

7) Provide adequate drainage to prevent water ponding.

As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.

9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1015 lb uplift at joint 2, 797 lb uplift at joint 16 and 475 lb uplift at joint 9.

Continued on page 2

🛕 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



MiTek

MiTek USA, Inc. 400 Sunrise Avenue, Suite 270 Roseville, CA 95661

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 6-0-0 oc bracing.

Job	Truss	Truss Type	Qty	Ply	Yavapai County 3 Bedroom R64674505
105782	B1	GIRDER	1	2	Job Reference (optional)

Ballard Truss LLC, Snowflake, AZ - 85937, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:52:43 2020 Page 2 ID:CpePSM0ILfRAS2JS9OC(9eyB4UR-s3p2FoKTZ9kSnJxxnB1KfNfPSGqEw7FNW0RTqpyB4H2

NOTES-

12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- 13) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 14) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 6-0-12 from the left end to 17-11-4 to connect truss(es) to front face of bottom chord.
- 15) Use USP HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent at 19-11-10 from the left end to connect truss(es) to front face of bottom chord.

16) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)

Vert: 1-4=-100, 4-7=-100, 7-10=-100, 2-9=-20

Concentrated Loads (lb)

Vert: 15=-407(F) 16=-407(F) 12=-948(F) 21=-407(F) 22=-407(F) 23=-407(F) 24=-407(F) 25=-407(F)

REVIEWED FOR **DESIGN CRITERIA** ONLY



Job	Truss	Truss Type		Qty	Ply	Yavapai County 3	Bedroom	**
								R64674506
105782	B2	Hip		1		1		
Statement of the statem						Job Reference (op	tional)	
Ballard Truss LLC,	Snowflake, AZ - 85937,	•			8.430 s N	Nov 30 2020 MiTek Ind	ustries, Inc. Tue Dec 80	8:52:44 2020 Page 1
				ID:CpePSM0ILfRA	S2JS9OCf9	eyB4UR-KGNQS8L6K	SsJPSV8LuYZCaBa7fA4	fXvWkgA0MGyB4H1
-2-0-0	5-9-4	8-0-0	13-0-0	18-	-0	20-2-12	26-0-0	28-0-0
2-0-0	5-9-4	2-2-12	5-0-0	5-0	0	2-2-12	5-9-4	2-0-0

Scale = 1:49.3

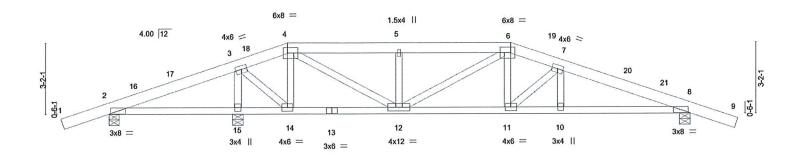


Plate Offsets (X,Y) [4:	5-9-4 5-9-4 0-5-12,0-3-0], [6:0-5-12,0-	8-0-0 2-2-12	13-0-0 5-0-0	18-0-0 5-0-0	20-2-12 2-2-12	26-0-0 5-9-4	
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TP	2-0-0 1.15 1.15 YES	CSI. TC 0.28 BC 0.46 WB 0.78 Matrix-SH	DEFL. in (loc) Vert(LL) -0.11 11 Vert(CT) -0.16 11-12 Horz(CT) 0.04 8	l/defl L/d >999 240 >999 180 n/a n/a	PLATES MT20 Weight: 122 lb	GRIP 185/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x6 SPF 1650F 1.5E

TOP CHORD **BOT CHORD** 2x4 SPF 1650F 1.5E

WEBS

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

REACTIONS. (size) 2=0-5-8, 15=0-5-8, 8=0-5-8

Max Horz 2=-63(LC 15)

Max Uplift 2=-149(LC 10), 15=-240(LC 10), 8=-295(LC 11) Max Grav 2=599(LC 35), 15=2034(LC 21), 8=1601(LC 35)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

TOP CHORD 2-3=-93/930, 3-4=-588/172, 4-5=-2025/394, 5-6=-2025/394, 6-7=-2247/414,

7-8=-2644/449

BOT CHORD 2-15=-827/166, 14-15=-827/166, 12-14=-25/464, 11-12=-253/2114, 10-11=-344/2381,

8-10=-344/2381

3-15=-1928/347, 3-14=-247/1688, 4-14=-1047/194, 4-12=-264/1824, 5-12=-829/190, **WEBS**

6-12=-432/128, 6-11=-46/514, 7-11=-675/123

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 8-0-0, Exterior(2R) 8-0-0 to 13-0-0, Interior(1) 13-0-0 to 18-0-0, Exterior(2R) 18-0-0 to 22-11-6, Interior(1) 22-11-6 to 28-0-14 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8).* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 149 lb uplift at joint 2, 240 lb uplift at joint 15 and 295 lb uplift at joint 8.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 5-4-6 oc purlins.

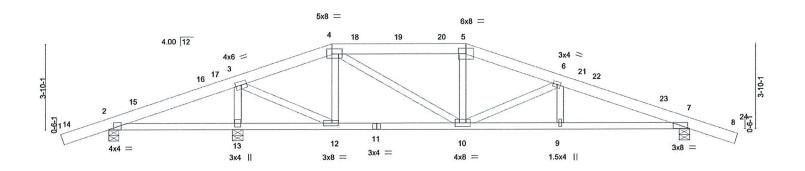
Rigid ceiling directly applied or 6-0-0 oc bracing.

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Job Truss	Truss Type	Qty	Ply	Yavapai County 3 Bedroom	Supplementarial
					R64674507
105782 B3	Hip	1	1		
CONTRACTOR OF THE CONTRACTOR O				Job Reference (optional)	
Ballard Truss LLC, Snowflake, AZ - 85937,			8.430 s Nov	30 2020 MiTek Industries, Inc. Tue Dec 8 0	8:52:45 2020 Page 1
		ID:CpePSM0ILI	RAS2JS9OC	Cf9eyB4UR-oSwofULk5m_A0c4Kvc3olokjv3W	?O?ygzKwZviyB4H0
-2-0-0 5-9-4	10-0-0	16-0-0	20	-2-12 26-0-0	28-0-0
2-0-0 5-9-4	4-2-12	6-0-0	4-	-2-12 5-9-4	2-0-0

Scale = 1:49.3



1	5-9-4 5-9-4	10-0-0 4-2-12			16-0-0 6-0-0			-2-12 2-12	1	26-0-0 5-9-4	—
Plate Offsets (X,Y) [2	:0-2-10,Edge], [4:0-5-4,0-2	-12], [12:0-3-8,	0-1-8]								
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TP	2-0-0 1.15 1.15 YES I2014	CSI. TC BC WB Matri	0.34 0.48 0.73 x-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.11 -0.16 0.04	(loc) 9-10 9-10 7	I/defI >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 120 lb	GRIP 185/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x6 SPF 1650F 1.5E

TOP CHORD **BOT CHORD** 2x4 SPF 1650F 1.5E

WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

REACTIONS.

(size) 2=0-5-8, 13=0-5-8, 7=0-5-8 Max Horz 2=75(LC 14)

Max Uplift 2=-163(LC 10), 13=-208(LC 10), 7=-294(LC 11) Max Grav 2=626(LC 35), 13=2006(LC 35), 7=1762(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-39/649, 3-4=-1189/282, 4-5=-1855/407, 5-6=-2039/401, 6-7=-2796/477 **BOT CHORD** 2-13=-518/113, 12-13=-518/113, 10-12=-104/1012, 9-10=-373/2525, 7-9=-373/2525 **WEBS** 3-13=-1894/342, 3-12=-247/1706, 4-12=-632/165, 4-10=-145/992, 6-10=-992/156

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 10-0-0, Exterior(2R) 10-0-0 to 14-11-6, Interior(1) 14-11-6 to 16-0-0, Exterior(2R) 16-0-0 to 20-11-6, Interior(1) 20-11-6 to 28-0-14 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint 2, 208 lb uplift at joint 13 and 294 lb uplift at joint 7.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 5-2-10 oc purlins.

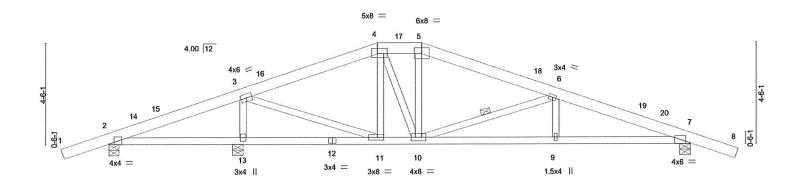
Rigid ceiling directly applied or 6-0-0 oc bracing.

A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss was and bracing of the stability and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Truss	Truss Type		Qty	Ply	Yavapai County 3 Bedroom	**************************************
			50	.22		R64674508
B4	Hip		1	1		
7.4					Job Reference (optional)	
Snowflake, AZ - 85937,			8	430 s Nov	30 2020 MiTek Industries, Inc. Tue Dec 8 08	3:52:47 2020 Page 1
		ID:Cpel	SMOILFRA	S2JS9OCf	9eyB4UR-lr2Z49N_cNEuGwEj016GqDp3ptAZ	ZsvHzRePgzbyB4H_
6-0-0	12-0-0	14-0-0		20-0-0	26-0-0	28-0-0
6-0-0	6-0-0	2-0-0		6-0-0	6-0-0	2-0-0
	B4 Snowflake, AZ - 85937, 6-0-0	B4 Hip Snowflake, AZ - 85937, 6-0-0 12-0-0	Snowflake, AZ - 85937, ID:Cpef 6-0-0 12-0-0 14-0-0	B4 Hip 1 Snowflake, AZ - 85937, 8 ID:CpePSM0ILfRA 6-0-0 12-0-0 14-0-0	B4 Hip 1 1 1 Snowflake, AZ - 85937, 8.430 s Nov ID:CpePSMOILfRAS2JS9OCF 6-0-0 12-0-0 14-0-0 20-0-0	B4

Scale = 1:49 3



-	5-9-4 5-9-4		12-0-0 6-2-12	14-0-0	20-0-0 6-0-0		26-0-0 6-0-0	——
Plate Offsets (X,Y) [4:0	-5-4,0-2-12], [7:0-2-6,Edg			2-0-0	0-0-0		0.00	
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI	2-0-0 1.15 1.15 YES 2014	CSI. TC 0.38 BC 0.54 WB 0.74 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.15 9-10 -0.21 9-10 0.05 7	l/defl L/d >999 240 >999 180 n/a n/a	PLATES MT20 Weight: 124 lb	GRIP 185/144 FT = 10%

BRACING-

WFBS

TOP CHORD BOT CHORD

LUMBER-TOP CHORD

2x6 SPF 1650F 1.5E

BOT CHORD 2x4 SPF 1650F 1.5E

WEBS

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

REACTIONS. (size) 2=0-5-8, 13=0-5-8, 7=0-5-8 Max Horz 2=88(LC 14)

Max Uplift 2=-164(LC 10), 13=-192(LC 10), 7=-285(LC 11) Max Grav 2=658(LC 35), 13=2262(LC 35), 7=1898(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD

2-3=-34/532, 3-4=-1528/298, 4-5=-1529/346, 5-6=-1761/327, 6-7=-3207/450 2-13=-346/90, 11-13=-346/90, 10-11=-100/1272, 9-10=-350/2870, 7-9=-350/2870

BOT CHORD

WEBS

3-13=-2123/337, 3-11=-200/1731, 4-11=-516/109, 4-10=-100/710, 6-10=-1418/219

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 12-0-0, Exterior(2E) 12-0-0 to 14-0-0, Exterior(2R) 14-0-0 to 18-11-6, Interior(1) 18-11-6 to 28-0-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

3) Unbalanced snow loads have been considered for this design.

4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.

5) Provide adequate drainage to prevent water ponding.

6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.

7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint 2, 192 lb uplift at joint 13 and 285 lb uplift at joint 7.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-10-11 oc purlins.

6-10

Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. AKNINIO - Venity design parameters and KEAD NOTES ON THIS AND INCLUDED MILE REFERENCE - PAGE MILE 17 FeW. 51/3/2/0 BEFURE USE.

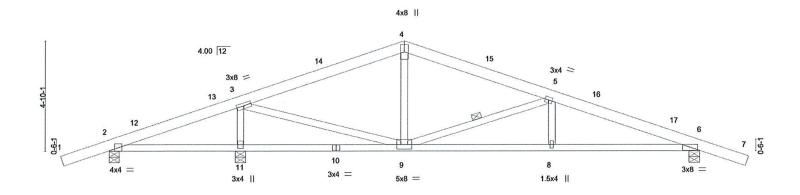
Design valid for use only with MITE&0 connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/for chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and fruss systems, see

ANSITH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



3 Bedroom
R64674509
otional)
dustries, Inc. Tue Dec 8 08:52:47 2020 Page 1
I_cNEuGwEj016GqDp3_tBAszdzRePgzbyB4H_
26-0-0 28-0-0
6-6-0 2-0-0

Scale = 1:48.6



-	5-9-4 5-9-4	-	13-0-0 7-2-12			19-6 6-6			-1	26-0-0 6-6-0	
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 1.15 1.15 YES PI2014	CSI. TC BC WB Matrix	0.37 0.50 0.47 k-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.13 -0.19 0.04	(loc) 8-9 8-9 6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 114 lb	GRIP 185/144 FT = 10%

BRACING-

WEBS

TOP CHORD **BOT CHORD**

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E **BOT CHORD** 2x4 SPF 1650F 1.5E

WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud *Except*

3-9: 2x4 SPF 1650F 1.5E

REACTIONS. (size) 2=0-5-8, 11=0-5-8, 6=0-5-8

Max Horz 2=94(LC 14) Max Uplift 2=-156(LC 10), 11=-190(LC 10), 6=-281(LC 11) Max Grav 2=570(LC 20), 11=1752(LC 21), 6=1517(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-42/415, 3-4=-1326/274, 4-5=-1398/269, 5-6=-2805/394 2-11=-342/91, 9-11=-342/91, 8-9=-293/2541, 6-8=-293/2541 TOP CHORD

BOT CHORD

3-11=-1621/316, 3-9=-161/1580, 4-9=0/261, 5-9=-1445/248, 5-8=0/251 **WEBS**

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 13-0-0, Exterior(2R) 13-0-0 to 16-6-0, Interior(1) 16-6-0 to 28-0-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 156 lb uplift at joint 2, 190 lb uplift at joint 11 and 281 lb uplift at joint 6.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 5-3-5 oc purlins.

5-9

Rigid ceiling directly applied or 6-0-0 oc bracing.

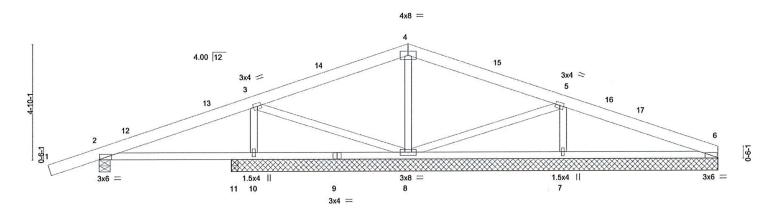
1 Row at midpt

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly demage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/ITP/I Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Truss Type	Qty Ply	Yavapai County 3 Bedroom	
		R646745	510
Common	1	1	
- CAL - CAL		Job Reference (optional)	
85937.	8,430 s N	Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:52:48 2020 Page 1	
	ID:CpePSM0lLfRAS2JS9OC	Cf9eyB4UR-D1cxIVOcNhMlt4pvakdVMQME1HbmbUQ6fl9EV1yB4Gz	
-0 13-0-0	19-6	-6-0 26-0-0	
-0 6-6-0	6-6	6-0 6-6-0	
9	Common 85937, 3-0 13-0-0	Common 1 85937, 8.430 s ID:CpePSM0ILfRAS2JS90 6-0 13-0-0 19	Common

Scale = 1:46.3



-	5-6-8 5-6-8	6-6-0 0-11-8	13-0-0 6-6-0			19-6-0 6-6-0			26-0-0 6-6-0	
Plate Offsets (X,Y) [2:	0-0-6,Edge], [6:0-0-6,Edg	ge]								
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TI	2-0-0 1.15 1.15 YES PI2014	CSI. TC 0.35 BC 0.22 WB 0.24 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.03 -0.06 0.00	(loc) 2-11 6-7 6	I/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 111 lb	GRIP 185/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x6 SPF 1650F 1.5E

TOP CHORD **BOT CHORD** 2x4 SPF 1650F 1.5E

WEBS

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

REACTIONS. All bearings 20-5-8 except (jt=length) 2=0-5-8, 11=0-3-8. Max Horz 2=104(LC 14) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 6, 8, 11 except 2=-171(LC 10), 7=-152(LC 11), 10=-164(LC 14) All reactions 250 lb or less at joint(s) 11 except 6=323(LC 1), 2=612(LC 20), 8=719(LC 1), 7=1116(LC 22), 10=1000(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 4-8=-559/146, 5-7=-968/226, 3-10=-906/224

NOTES-

- 1) Wind: ASCE 7-16; Vull=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 13-0-0, Exterior(2R) 13-0-0 to 16-6-0, Interior(1) 16-6-0 to 26-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 8, 11 except (jt=lb) 2=171, 7=152, 10=164.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

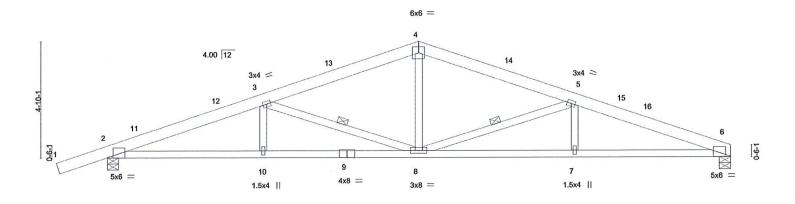
Rigid ceiling directly applied or 10-0-0 oc bracing.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITE® onnectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Yavapai County 3 Bedroom	5.07.00.00.00
		2.5		100		R64674511
105782	B7	Common	1	1		
					Job Reference (optional)	
Ballard Truss LLC,	Snowflake, AZ - 85937,		8	.430 s Nov	30 2020 MiTek Industries, Inc. Tue Dec 8 08:52	:49 2020 Page 1
			ID:CpePSM0ILfRA	S2JS9OCf9	DeyB4UR-hDAJVrOE8?UbVEO58S8kvevPegqtKt3	3Fuyun1TyB4Gy
-2-0-0	6-6-0	13-0-0	or bearing on an arrival of the	19-6-0	26-0-0	
2-0-0	6-6-0	6-6-0		6-6-0	6-6-0	

Scale = 1:46.0



	6-6-0 13-0-0			-0-0			19-6-			26-0-0	
	6-6-0	1	6-6-0				6-6-0)	6-6-0		
Plate Offsets (X,Y) [2:0	0-2-10,Edge], [6:0-2-10,Ed	ige]									
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI	2-0-0 1.15 1.15 YES 12014	BC	0.36 0.67 0.47 SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.20 -0.32 0.13	(loc) 8-10 8-10 6	I/defl >999 >946 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 111 lb	GRIP 185/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x6 SPF 1650F 1.5E

TOP CHORD **BOT CHORD** 2x4 SPF 1650F 1.5E

WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

REACTIONS. (size) 6=0-5-8, 2=0-5-8

Max Horz 2=104(LC 18)

Max Uplift 6=-195(LC 11), 2=-307(LC 10) Max Grav 6=1579(LC 22), 2=1824(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD

2-3=-3678/560, 3-4=-2466/445, 4-5=-2468/455, 5-6=-3749/595

BOT CHORD

2-10=-463/3359, 8-10=-463/3359, 7-8=-491/3459, 6-7=-491/3459

WEBS

4-8=-75/847, 5-8=-1458/266, 5-7=0/255, 3-8=-1368/240, 3-10=0/252

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 13-0-0, Exterior(2R) 13-0-0 to 16-6-0. Interior(1) 16-6-0 to 25-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=195, 2=307.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-3-11 oc purlins.

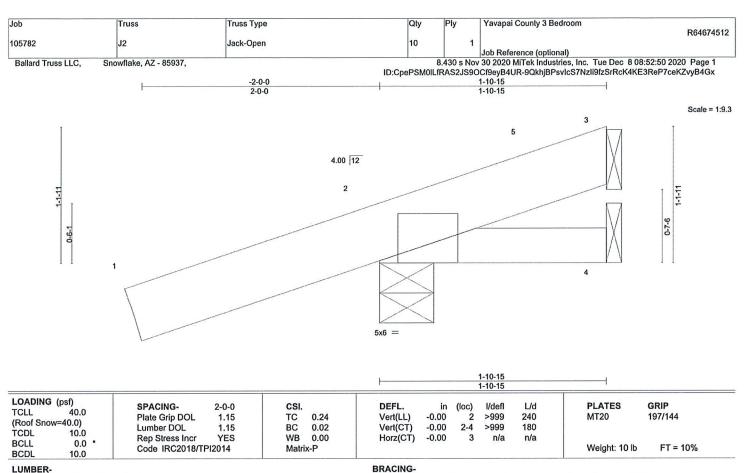
5-8, 3-8

Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt

A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly amage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x6 SPF 1650F 1.5E

BOT CHORD 2x4 SPF 1650F 1.5E

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical

Max Horz 2=66(LC 10)

Max Uplift 3=-199(LC 20), 2=-168(LC 10)

Max Grav 3=25(LC 10), 2=636(LC 20), 4=37(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 1-10-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.

 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=199, 2=168,
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



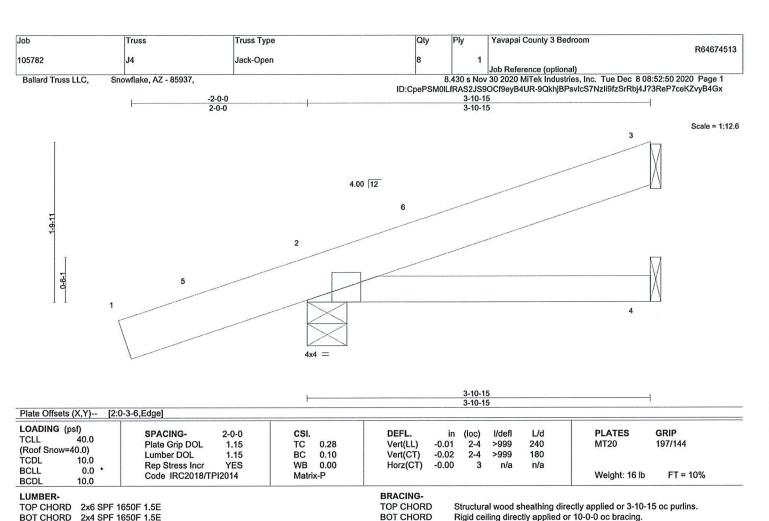
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Structural wood sheathing directly applied or 1-10-15 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek USA, Inc. 400 Sunrise Avenue, Suite 270 Roseville, CA 95661



REACTIONS.

2x4 SPF 1650F 1.5E

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical Max Horz 2=94(LC 10)

Max Uplift 3=-96(LC 20), 2=-164(LC 10)

Max Grav 3=154(LC 21), 2=726(LC 21), 4=72(LC 5)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 3-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=164.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIITHI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Yavapai County 3 Bedroom		
						R64674514	
105782	J6	Jack-Closed	18	1			
	-1				Job Reference (optional)		
Ballard Truss LLC,	Snowflake, AZ - 85937,		8.	430 s Nov	30 2020 MiTek Industries, Inc. Tue Dec 8 08:52:51 2	2020 Page 1	
		3	D:CpePSM0lLfRAS2J	S9OCf9eyl	B4UR-dcl4wXQVgckJkXYUFtAC_3_mMUdyouuYMGN	Nu5MyB4Gw	
	-2-0-0	1	6-	0-0	TO THE PROPERTY OF THE PARTY OF		
	2-0-0	6-0-0					

Scale = 1:17.0

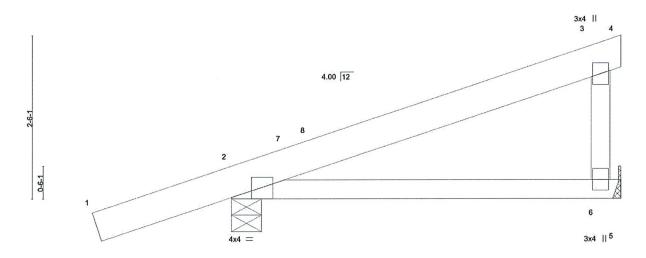


Plate Offsets (X,Y)-- [2:0-3-10,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defl L/d **PLATES** GRIP (loc) in TCLL 40 0 Vert(LL) -0.05 240 185/144 Plate Grip DOL 1.15 TC 0.28 2-6 >999 (Roof Snow=40.0) BC -0.10 >664 180 Lumber DOL 1.15 0.25 Vert(CT) 2-6 TCDL 10.0 WB 0.00 Horz(CT) Rep Stress Incr YES 0.00 6 n/a n/a BCLL 0.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

2x6 SPF 1650F 1.5E

TOP CHORD **BOT CHORD** 2x4 SPF 1650F 1.5E

10.0

WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

REACTIONS. (size) 6=Mechanical, 2=0-5-8

Max Horz 2=113(LC 11) Max Uplift 6=-53(LC 14), 2=-172(LC 10)

Max Grav 6=427(LC 21), 2=839(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

Code IRC2018/TPI2014

TOP CHORD 3-6=-366/245

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 6-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

Matrix-P

- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=172.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Weight: 24 lb

Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

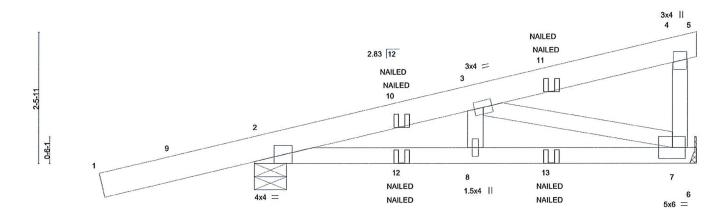
FT = 10%

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent callapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Yavapai County 3 Bedroom Truss Truss Type Qty Ply R64674515 105782 MONO GIRDER JC1 Job Reference (optional) Ballard Truss LLC, Snowflake, AZ - 85937, 8,430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:52:52 2020 Page 1 ID:CpePSM0ILfRAS2JS9OCf9eyB4UR-5orS7tR7RwsAMh7gpaiRXGXsxuy_XHniaw7ReoyB4Gv 4-2-3 4-2-3

Scale = 1:20.8



		1		4-2-3			+			-4-5 -2-2	
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 NO PI2014	CSI. TC BC WB Matri	0.61 0.20 0.28 x-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.02 -0.03 0.01	(loc) 8 7-8 7	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 39 lb	GRIP 185/144 FT = 10%

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E

2x4 SPF 1650F 1.5E **BOT CHORD**

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud WEBS

BRACING.

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

(size) 7=Mechanical, 2=0-7-6 REACTIONS.

Max Horz 2=106(LC 7)

Max Uplift 7=-47(LC 10), 2=-201(LC 6) Max Grav 7=569(LC 17), 2=1012(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD

2-3=-869/248, 4-7=-331/73 2-8=-314/733, 7-8=-314/733

BOT CHORD WEBS 3-7=-762/326

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 2=201
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-100, 4-5=-100, 2-6=-20

Continued on page 2

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent ucliapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





Job	Truss	Truss Type	Qty	Ply	Yavapai County 3 Bedroom R64674515
105782	JC1	MONO GIRDER	3	1	K04074515
1.45.75		Country of Mark and the			Job Reference (optional)

Ballard Truss LLC.

Snowflake, AZ - 85937,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:52:52 2020 Page 2 ID:CpePSM0ILfRAS2JS9OCf9eyB4UR-5orS7tR7RwsAMh7gpaiRXGXsxuy_XHniaw7ReoyB4Gv

LOAD CASE(S) Standard

Concentrated Loads (lb)

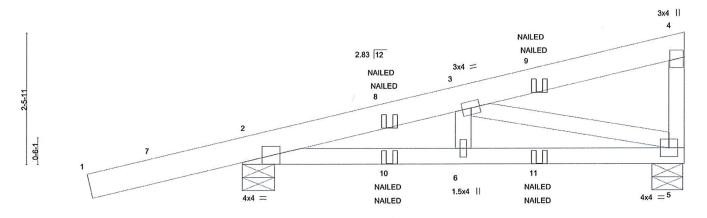
Vert: 10=68(F=34, B=34) 11=-38(F=-19, B=-19) 13=-16(F=-8, B=-8)

REVIEWED FOR DESIGN CRITERIA ONLY



Job	Truss	Truss Type		Qty	Ply	Yavapai County 3 Bedroom	
						R64	1674516
105782	JC2	MONO GIRDER		1	1		
	30,500					Job Reference (optional)	
Ballard Truss LLC.	Snowflake, AZ - 85937,			8.	430 s Nov	30 2020 MiTek Industries, Inc. Tue Dec 8 08:52:53 2020 Pag	ge 1
*			ID:Cpel	PSM0ILfR/	AS2JS900	f9eyB4UR-Z?PqLDSICD_1_rhsNHDg3T31ill?GkVrpas_AEyB4	4Gu
	-2-9-15	1	4-2-3		1	8-4-5	
	2-9-15		4-2-3		1	4-2-2	

Scale = 1:20.8



	-	4-2-3 4-2-3	I	8-3-15 4-1-12	8-4-5 0-0-6
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	Author State Co.	in (loc) I/defl 0.03 6 >999 0.04 5-6 >999 0.01 5 n/a	L/d PLATES 240 MT20 180 n/a Weight: 39 lb	GRIP 185/144 p FT = 10%

LUMBER-

TOP CHORD

2x6 SPF 1650F 1.5E 2x4 SPF 1650F 1.5E

BOT CHORD WEBS

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 5=0-7-0, 2=0-7-6

Max Horz 2=105(LC 9)

Max Uplift 5=-44(LC 10), 2=-202(LC 6)

Max Grav 5=533(LC 17), 2=1031(LC 17)

TOP CHORD

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-916/233, 4-5=-294/66

BOT CHORD

2-6=-300/778, 5-6=-300/778

3-5=-807/311 WEBS

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate arip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb)
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-100, 2-5=-20

Concentrated Loads (lb)

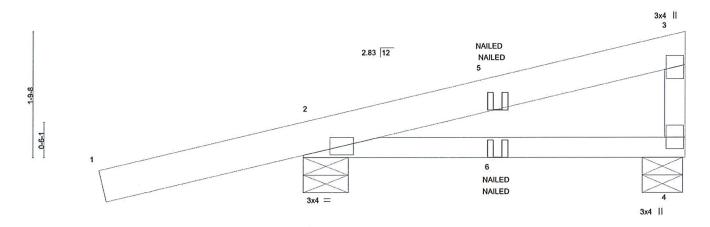
Vert: 8=68(F=34, B=34) 9=-38(F=-19, B=-19) 11=-16(F=-8, B=-8)



MiTek MiTek USA, Inc. 400 Sunrise Avenue, Suite 270 Roseville, CA 95661

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Job	Truss	Truss Type	Qty	Ply	Yavapai County 3 Bedroom
		7.57			R64674517
105782	JC3	MONO GIRDER	1	1	
			*		Job Reference (optional)
Ballard Truss LLC,	Snowflake, AZ - 85937,		8	.430 s Nov	30 2020 MiTek Industries, Inc. Tue Dec 8 08:52:54 2020 Page 1
			ID:CpePSM0lLfR	AS2JS9OC	Cf9eyB4UR-2BzCYZSNzX6ub?G3x?kvchcBrhe_?Fe?2EcYihyB4Gt
	-2-9-15	1	100 CA-10 E E 10 CA-10 C	5-5-	11
ı	2-9-15			5-5-	-11



		1		5-5-5 5-5-5		5-5 ₁ 11 0-0-6	
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.65 BC 0.23 WB 0.00	DEFL. ii Vert(LL) -0.04 Vert(CT) -0.07 Horz(CT) -0.00	7 2-4 >855	L/d 240 180 n/a	PLATES MT20	GRIP 185/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P				Weight: 23 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E

BOT CHORD 2x4 SPF 1650F 1.5E

WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

BRACING-

BOT CHORD

TOP CHORD

Structural wood sheathing directly applied or 5-5-11 oc purlins,

except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=0-7-0, 2=0-7-12 Max Horz 2=74(LC 7)

Max Uplift 4=-118(LC 16), 2=-207(LC 6) Max Grav 4=217(LC 17), 2=929(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=118, 2=207.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-100, 2-4=-20

Concentrated Loads (lb)

Vert: 5=68(F=34, B=34)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



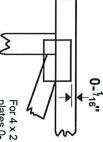
Symbols

PLATE LOCATION AND ORIENTATION



Apply plates to both sides of truss offsets are indicated. Center plate on joint unless x, y Dimensions are in ft-in-sixteenths.

and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

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This symbol indicates the

required direction of slots in connector plates.

*Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE



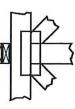
width measured perpendicular to slots. Second dimension is the length parallel to slots. The first dimension is the plate

LATERAL BRACING LOCATION



if indicated output. Use T or I bracing by text in the bracing section of the Indicated by symbol shown and/or

BEARING



(supports) occur. Icons vary but reaction section indicates joint Min size shown is for crushing only. number where bearings occur. Indicates location where bearings

Industry Standards:

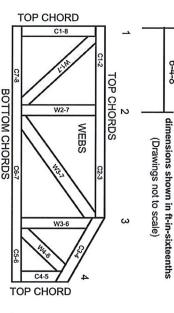
ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.

DSB-89:

Guide to Good Practice for Handling, Building Component Safety Information, Installing & Bracing of Metal Plate

Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

truss unless otherwise shown. Trusses are designed for wind loads in the plane of the

section 6.3 These truss designs rely on lumber values Lumber design values are in accordance with ANSI/TPI 1 established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

- Failure to Follow Could Cause Property

 Damage or Personal Injury

 1. Additional stability bracing for truss system, e.g.
 diagonal or X-bracing, is always required. See BOS Truss bracing must be designed by an engineer. Bos wide truss spacing, individual lateral braces themselved on the pracing should be considered.

 Name account the design loading shown and nevel.
- stack materials on inadequately braced trusses
- Provide copies of this truss design to the building all other interested parties. designer, erection supervisor, property owner and

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- Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.

7.

Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

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- 10. Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.